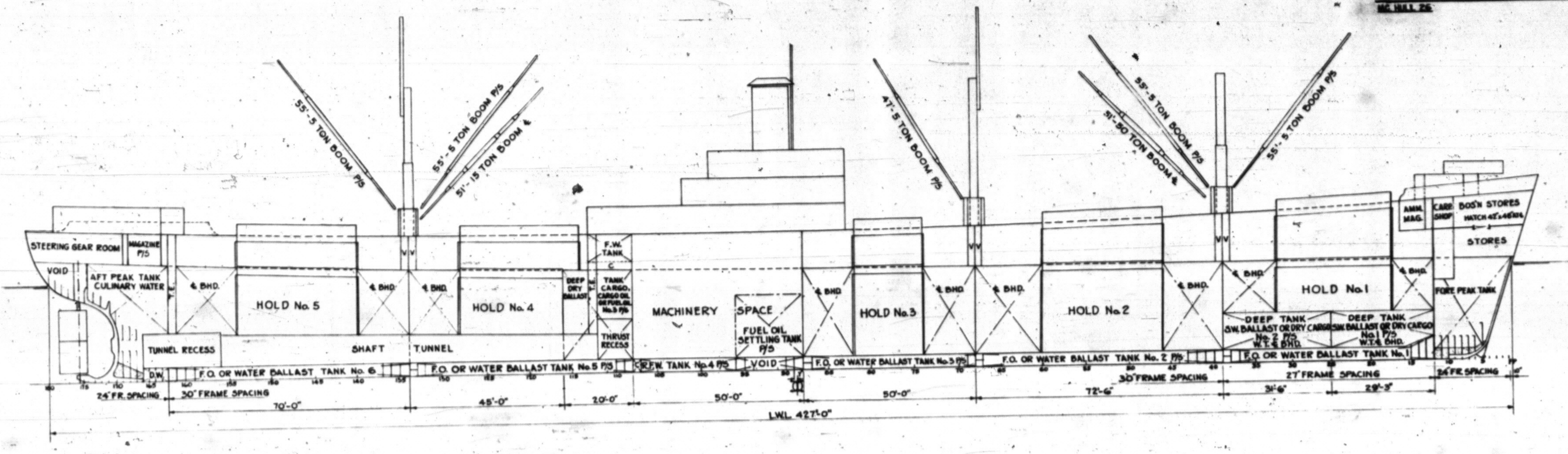
S.S. FRANCIS L. LEE

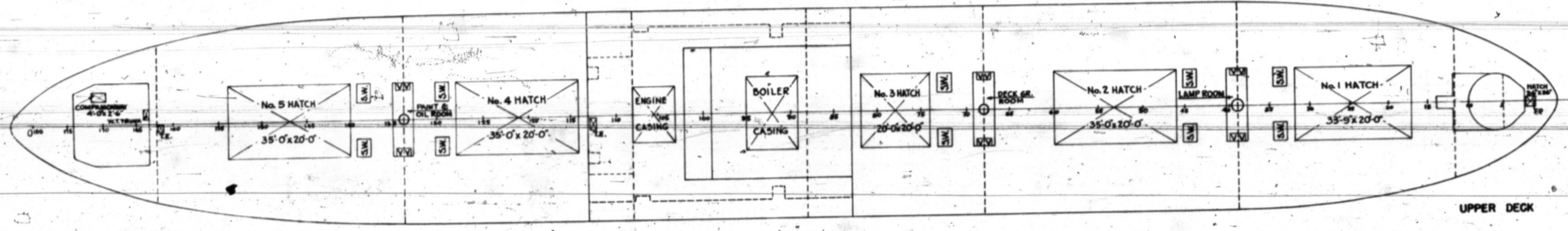
MC HULL 26

B.F. HULL 2013

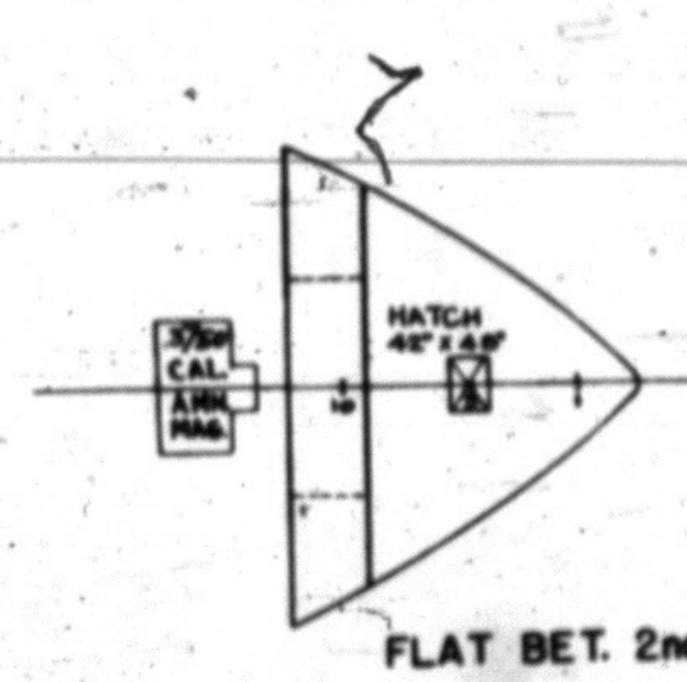


ABBREVIATION

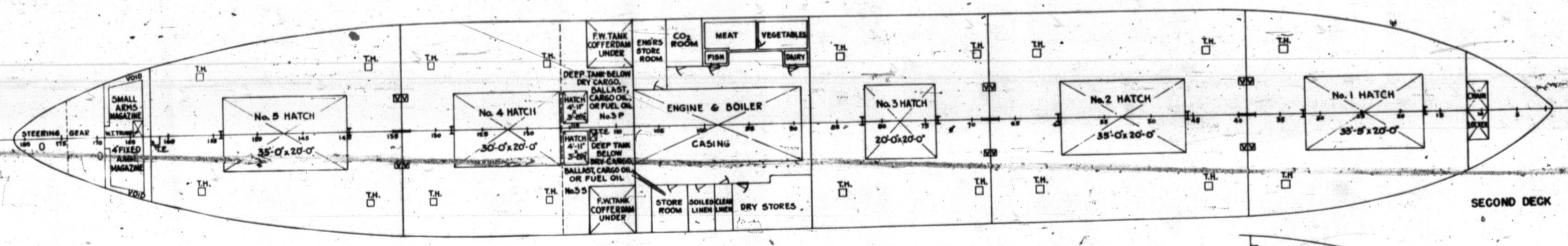
T.E. – TUNNEL ESCAPE
T.H. – TRIMMING HATCH
D.W. – DRAIN WELL
S.W. – STEAM WINCH
V. – VENT TRUNK
C. – COFFERDAM



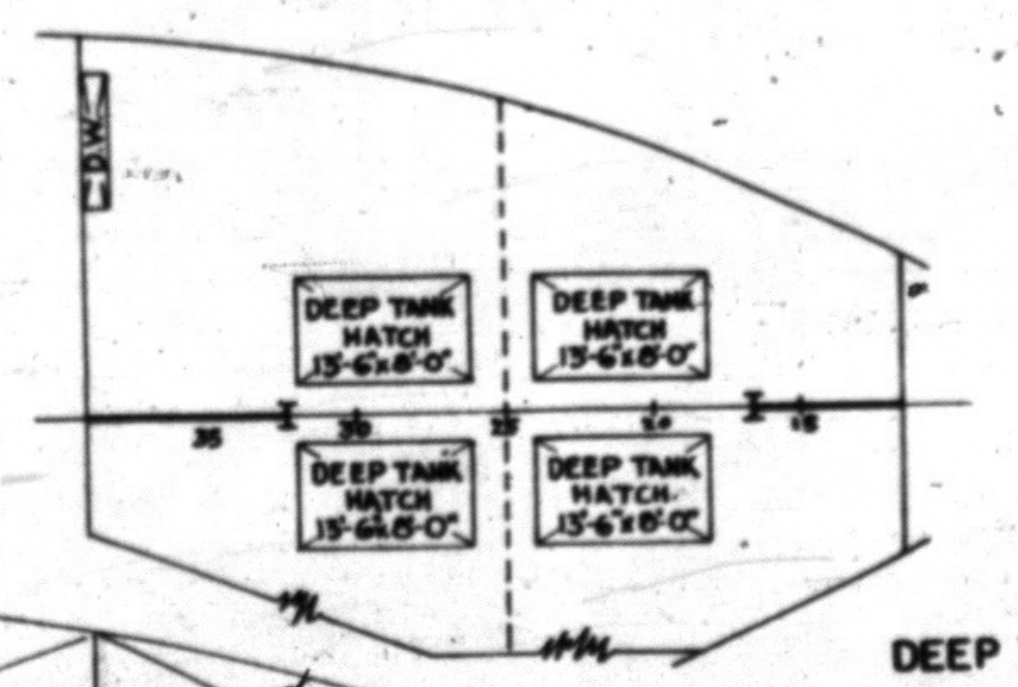
UPPER DECK



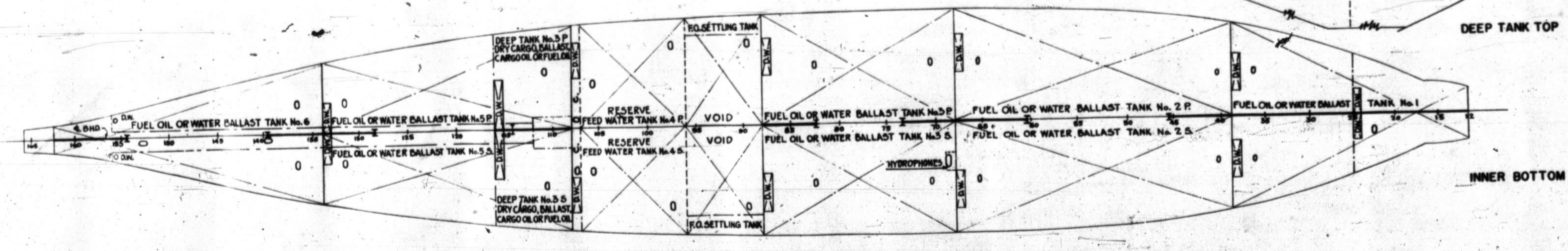
FLAT BET. 2nd & UPPER DKS.



SECOND DECK



DEEP TANK TOP


FUEL OIL OR WATER BALLAST TANK No.6
FUEL OIL OR WATER BALLAST TANK No.5 P
FUEL OIL OR WATER BALLAST TANK No.5 S
DEEP TANK No.3 P DRY CARGO, BALLAST, CARGO OIL OR FUEL OIL
DEEP TANK No.3 S DRY CARGO, BALLAST, CARGO OIL OR FUEL OIL
RESERVE FEED WATER TANK No.4 P
RESERVE FEED WATER TANK No.4 S
F.O. SETTLING TANK
F.O. SETTLING TANK
VOID
FUEL OIL OR WATER BALLAST TANK No.3 P
FUEL OIL OR WATER BALLAST TANK No.3 S
HYDROPHONES
FUEL OIL OR WATER BALLAST TANK No.2 P
FUEL OIL OR WATER BALLAST TANK No.2 S
FUEL OIL OR WATER BALLAST TANK No.1

INNER BOTTOM

CARGO

COMPARTMENT			GRAIN CAP.	BALE CAP.
			C.F.	C.F.
HOLD No.1		HOLD	41257	36083
		TWEEN DECKS	43143	39565
HOLD No.2		HOLD	98860	92008
		TWEEN DECKS	46744	42630
HOLD No.3		HOLD	68459	59793
		TWEEN DECKS	27970	23904
HOLD No.4		HOLD	58841	52574
		TWEEN DECKS	35277	29689
HOLD No.5		HOLD	58620	51571
		TWEEN DECKS	34570	30864
DEEP	TANKS	No.1P.	3639	2729
"	"	No.1S.	3639	3004
"	"	No.2P.	7473	5294
"	"	No.2S.	7473	5578
"	"	No.3P.	13674	12506
"	"	No.3S.	13188	12024
		TOTAL	562827	499816

WATER BALLAST

TANK			CU. FT.	TONS@35C.F.
FORE PEAK			5073	145
WATER	BALLAST	No.1	5029	144
"	"	No.2P.	5967	170
"	"	No.2S.	5967	170
"	"	No.3P.	4400	126
"	"	No.3S.	4365	125
"	"	No.5P.	4391	125
"	"	No.5P.	4391	125
"	"	No.6	4118	118
AFTER PEAK – CULINARY WATER			5438	155
DEEP	TANKS	No.1P.	3973	114
"	"	No.1S.	3973	114
"	"	No.2P.	7340	210
"	"	No.2S.	7340	210
"	"	No.3P.	13540	387
"	"	No.3S.	13065	373
		TOTAL	98370	2811

FRESH WATER

TANK			GAL'S	TONS@35C.F.
RESERVE	FEED	No.4P.	17855	66
"	"	No.4S	17855	66
FRESH	WATER	FR. 108-113P.	7541	28
"	"	FR. 108-113S.	7541	28
		TOTAL	50792	188

FUEL OIL

TANK				GAL'S	TONS@37.23C.F.
FUEL	OIL	TANK	No.1	36863	132
"	"	"	No.2P.	43742	157
"	"	"	No.2S.	43742	157
"	"	"	No.3P.	32251	116
"	"	"	No.3S.	31955	115
"	"	"	No.5P.	32185	116
"	"	"	No.5S.	32185	116
"	"	"	No.6	30183	108
			TOTAL	283106	1017
F.O.	SETTLING	TANK	FR.88-96P.	14083	51
"	"	"	FR.88-96S.	14083	51
			TOTAL	28166	102
CARGO OIL OR FUEL OIL					
DEEP	TANK		No. 3P.	99257	356
"	"		No. 3S.	95772	344
			TOTAL	195029	700
			TOTAL (ALL F.O.)	506301	1819

STORES

STORE ROOM	CU. FT.
BOS'N. STORES ON 2nd DECK F.P. TO FR. 12	3034
BOS'N. STORES ON FLAT BET. 2nd & UPP. DKS.	3492
CABIN STORES 2nd DK. (FRS. 88-106)	4329
LINEN LOCKER	585
BONDED STORES	186
REFRIGERATED STORES:	
MEAT	801
FISH	173
VEGETABLES	768
DAIRY	176

PRINCIPAL DIMENSIONS

L.O.A.	441'-7½"
L.B.P. (25'-3¼" W.L.)	416'-0"
BREADTH, MLD.	56'-10¾"
BREADTH, EXTREME	57'-1¼"
DEPTH TO UPPER DECK, MLD.	37'-4"
DEPTH TO SECOND DECK, MLD.	28'-7"
DRAFT	27'-9¼"

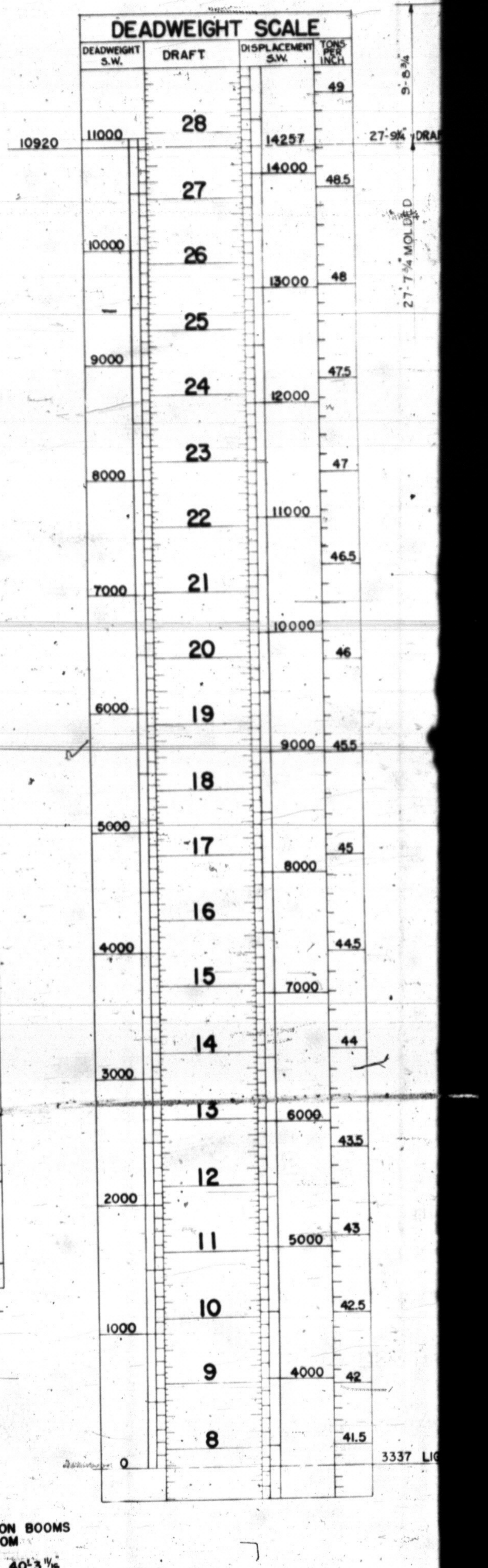
CAPACITIES & TYPES OF WINCHES
7"x12" DBL. GEARED WINCHES FOR 5 & 15 TON BOOMS
10½x12 " " WINCH FOR 50 TON BOOM

HEIGHTS OF MASTS

FIXED MAST ABOVE DECK	FOREMAST	40'-3 11/16"
" " " "	FR.68	42'-11 3/16"
" " " "	FR.134	42'-2 7/16"
TELESCOPIC " " "	FR.68	62'-11 3/16"
" " " "	FR.134	62'-2 7/16"

ENGINE
DIRECT ACTING CONDENSING THREE CYLINDER TRIPLE EXPANSION ENGINE DEVELOPING 2500 I.H.P. AT 76 R.P.M.

BOILERS
TWO MAIN BOILERS OF THE CROSS DRUM SECTIONAL SINUOUS HEADER STRAIGHT TUBE TYPE FITTED WITH SUPER HEATERS, BURNING BUNKER "C" FUEL OIL



Nº	ALTERATIONS	DATE	REMARKS
1	LENGTH OF HATCH Nº1 ON UPPER DK. & 2ND DK. CORRECTED TO 33'-9"	5-13-42 LEH	

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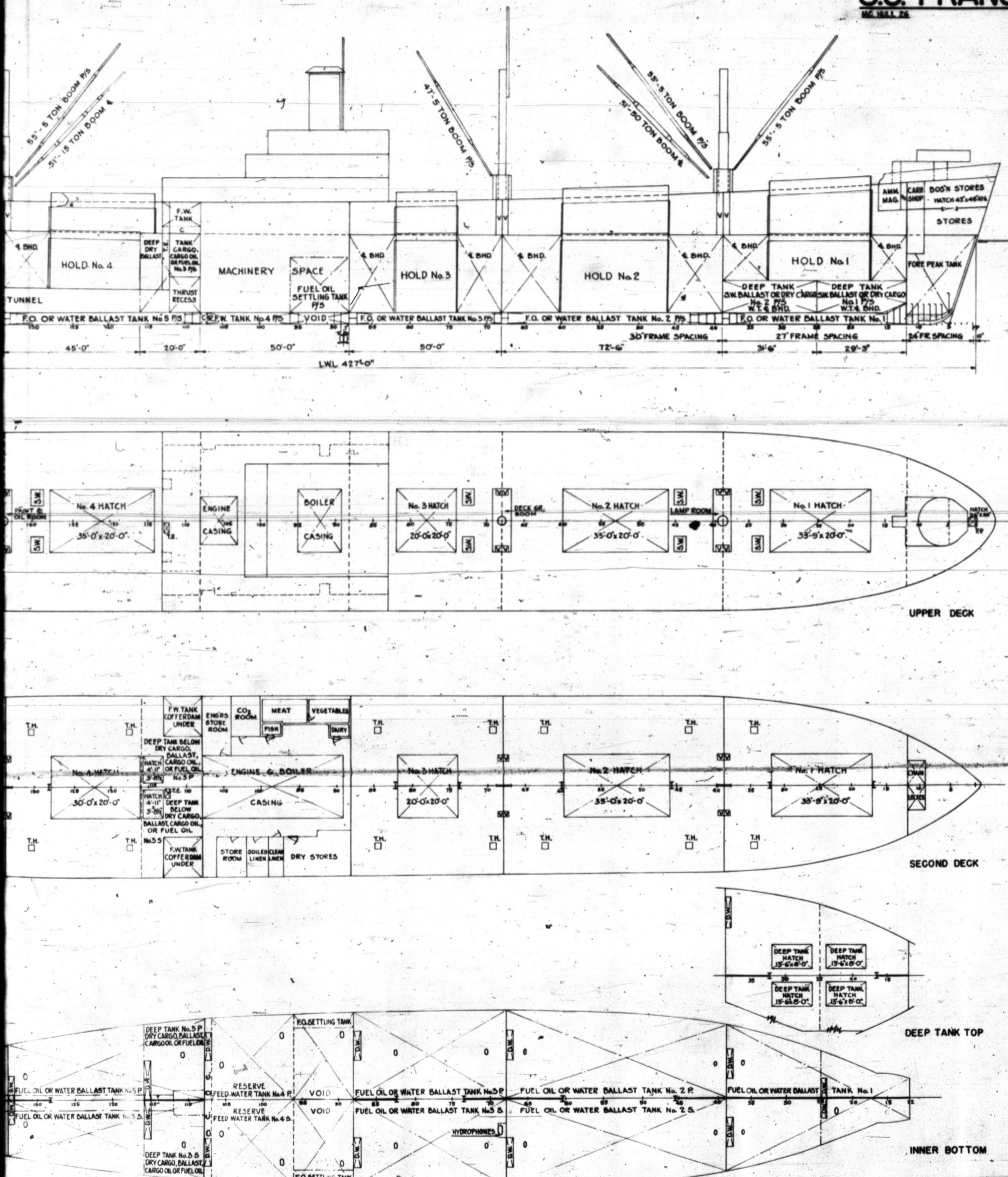
55'-5 TON BOOM P/S
51'-15 TON BOOM P/S
47'-5 TON BOOM P/S
55'-5 TON BOOM P/S
51'-50 TON BOOM
55'-5 TON BOOM P/S
AMM. MAG.
CARP. SHOP
BOS'N STORES
HATCH 42"x46"
STORES
F.W. TANK
DEEP DRY BALLAST
TANK CARGO OR FUEL OIL
THRUST RECESS
HOLD No. 4
MACHINERY SPACE
FUEL OIL SETTLING TANK P/S
VOID
HOLD No.3
HOLD No.2
HOLD No.1
DEEP TANK S.W. BALLAST OR DRY CARGO No. 2 P/S W.T. & BHD.
DEEP TANK S.W. BALLAST OR DRY CARGO No. 1 P/S W.T. & BHD.
FORE PEAK TANK
TUNNEL
F.O. OR WATER BALLAST TANK No.5 P/S
F.W. TANK No.4 P/S
VOID
F.O. OR WATER BALLAST TANK No.3 P/S
F.O. OR WATER BALLAST TANK No. 2 P/S
F.O. OR WATER BALLAST TANK No.1
30' FRAME SPACING
27' FRAME SPACING
24' FR. SPACING
45'-0"
20'-0"
50'-0"
50'-0"
72'-6"
34'-6"
29'-3"
LWL 427'-0"
No. 4 HATCH 35'-0"x20'-0"
ENGINE CASING
BOILER CASING
No. 3 HATCH 20'-0"x20'-0"
DECK GR. BOOM
No. 2 HATCH 35'-0"x20'-0"
LAMP ROOM
No. 1 HATCH 33'-9"x20'-0"
S.W.
UPPER DECK
T.H.
F.W. TANK COFFERDAM UNDER
DEEP TANK BELOW DRY CARGO, BALLAST, CARGO OIL OR FUEL OIL
ENGR'S STORE ROOM
CO2 ROOM
MEAT
VEGETABLES
FISH
DAIRY
No. 4 HATCH 30'-0"x20'-0"
ENGINE & BOILER CASING
No. 3 HATCH 20'-0"x20'-0"
No. 2 HATCH 35'-0"x20'-0"
No. 1 HATCH 33'-9"x20'-0"
STORE ROOM
BONDED LINEN
DRY STORES
SECOND DECK
DEEP TANK HATCH 15'-6"x8'-0"
DEEP TANK HATCH 15'-6"x8'-0"
DEEP TANK TOP
DEEP TANK No. 3 P DRY CARGO, BALLAST, CARGO OIL OR FUEL OIL
DEEP TANK No. 3 S DRY CARGO, BALLAST, CARGO OIL OR FUEL OIL
F.O. SETTLING TANK
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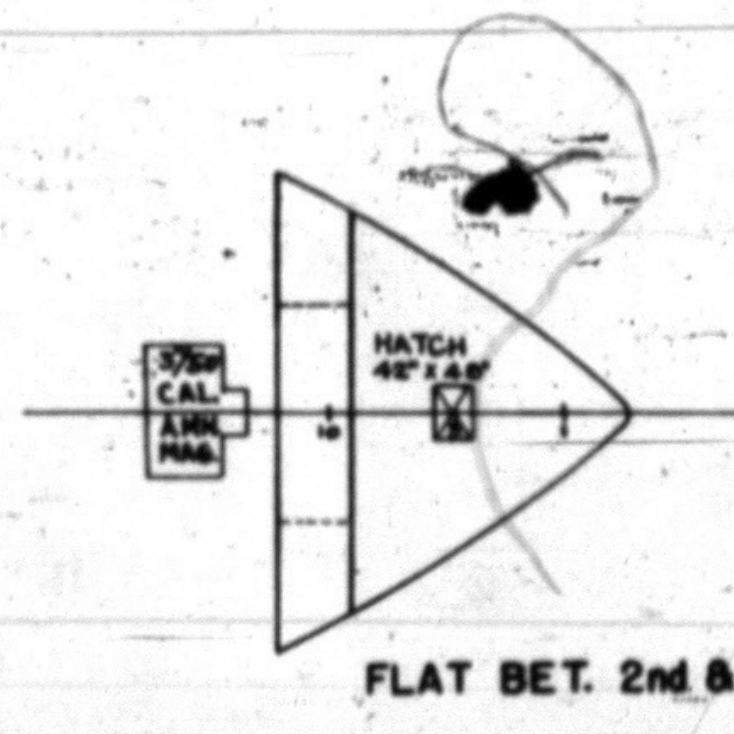

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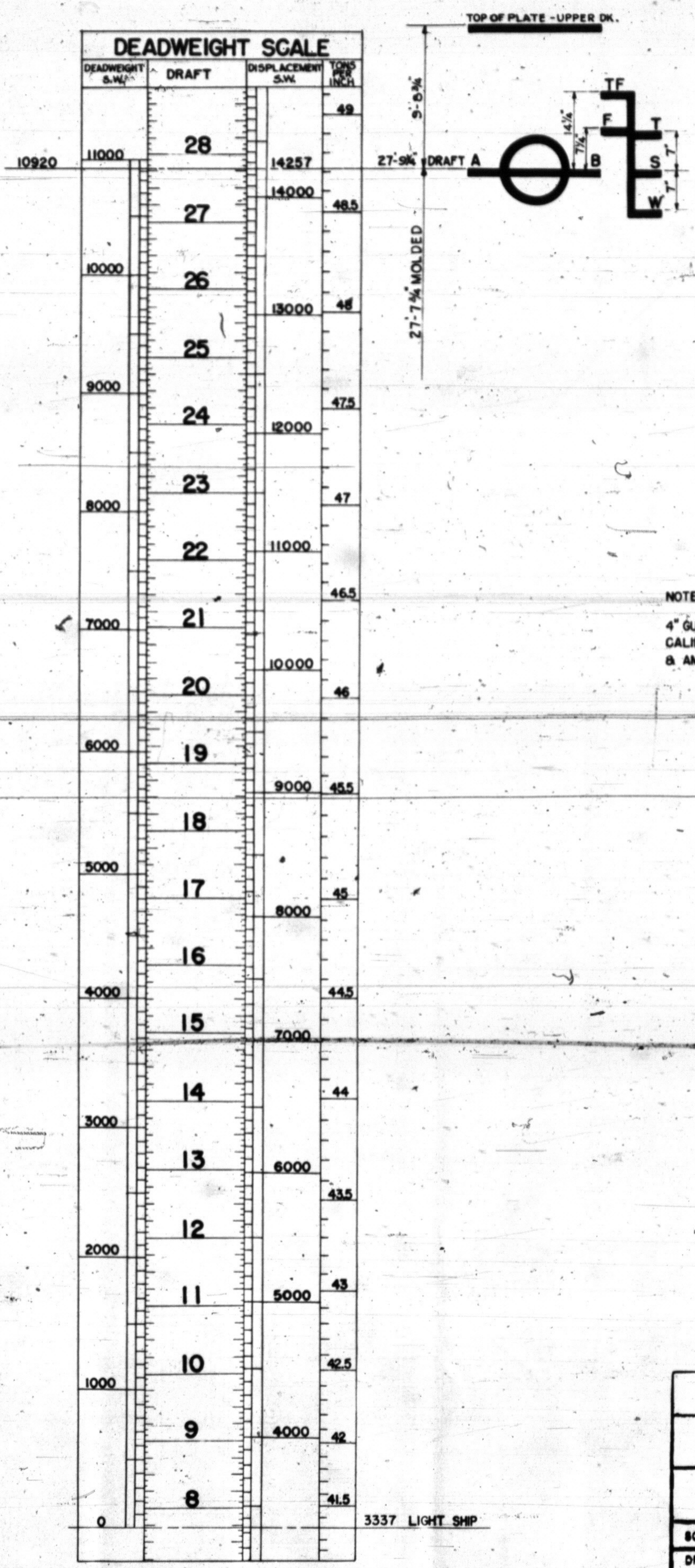

NOTE:
THE LIGHT WEIGHT OF THE SHIP INCLUDES THE 4" GUN AFT., 4-50 CALIBER MACHINE GUNS, 4-30 CALIBER MACHINE GUNS, 3"/50 CALIBER GUN FORWARD & AMMUNITION

DESIGN NO. EC2-S-C1

UNITED STATES MARITIME COMMISSION
EMERGENCY SHIP CONTRUCTION DIVISION

CAPACITY PLAN

SCALE 1/16" = 1'-0" DATE APRIL 24, 1942

DRAWN P.F.B.
TRACED
CHECKED E.F.C.

APPROVED
APPROVED
APPROVED

BETHLEHEM-FAIRFIELD SHIPYARD, INCORPORATED
FAIRFIELD BALTIMORE, MD.

M.C.E. PLAN Nº 14-63 301-312 S29-1-1-12

APPROVED AS NOTED IN
M.C.E. LETTER DATED MAY 12-1942
M.C.E. FILE NO. S29
BY W. G. Esmond
BY